

# Multiple Flow Cytometry File Upload



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## Flow Cytometry Analysis (Beta) / Data Management / Overview

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The Data Manager

Upload Single File

▶ Upload Multiple Files

View/Edit Uploaded Data

Create Data Set

▶ Put multiple files into a dataset

View/Edit Data Sets

▶ View and edit the created dataset, e.g., adding/removing files; adding information for files in the dataset

files for future analysis

, adding sample information, renaming markers.

can be used either in batch FLOCK runs or Cross Sample Comparison

The uploaded data file can be in either .fcs or .txt format. The filename can't contain the following characters: ' " \ and /. ImmPort automatically converts .fcs files to .txt files when the upload includes only .fcs files. The .txt files can be created using third party tools including Tree Star FlowJo™ on MacOS. For conversion details, please see the [help section](#).

Channels, such as forward scatter width (FSC-W), can distort FLOCK analysis result if included together with forward scatter height (FSC-H) in the .fcs data file. You can exclude these channels using Tree Star FlowJo™ on MacOS or you can modify and upload the .txt data file available after conversion on ImmPort. For details, please see the [help section](#).

The ImmPort FCS conversion component has been tested with a variety of BD (Becton, Dickinson and Company) flow cytometry instrument data files. The conversion results are highly consistent with those from Tree Star FlowJo™ channel output for FCS 2.0 and 3.0 files. Ongoing improvements will cover data files, both pre- and post- gated, from alternative flow cytometers. If you have data files from another vendor, please contact the [help desk](#) so that the ImmPort team can assist you with your data requirements.

### Flow Cytometry Analysis Workflow



Click **Upload Multiple Files** from the Data Management drop down menu

## Multiple Flow Cytometry File Upload

### Workflow for Submission of Multiple Flow Cytometry Result Files



The ImmPort Flow Cytometry multiple file upload process allows for the upload of multiple .fcs files and tab delimited text files(.txt) converted from FCS files. Uploaded .fcs files are automatically converted to .txt files using the ImmPort flow cytometry data converter. All uploaded files will be stored in a private project workspace. For more information please see the [Help](#) page.

#### Batch Upload:

- Complete the [flowTextFiles.xls](#) template.
  - This template provides the opportunity to rename data files, allows for the addition of descriptive information about each individual file being uploaded and enables marker name changes via the inclusion of a marker information file.
  - The .fcs or fcs .txt data file names may NOT contain the following characters: ' " \ and /.
  - The fcs data files should be compensated before sending to ImmPort.
- Save the Excel flowTextFiles.xls template as a tab delimited text file (flowTextFiles.txt).  
**Please do not rename the flowTextFiles.txt file.**
- ZIP the completed template and the data files.
  - Create the ZIP file by selecting files from within a folder versus selecting the folder itself.
  - Add marker (channel) information files at this time if they are to be included (optional). [example Marker File \(.info\)](#)
  - Please do not include spaces in the .zip file name.**
  - You may find it helpful to review an [example multiple fcs files upload package](#).
- Select the project to which the data will be saved
- Use the Browse feature to select the .zip file and click Submit. Time to complete the processing of submitted data is dependent on the size of the submission queue.
- To review the uploaded data go to [Data Management, View / Edit Uploaded Data](#)

Research Project Title: TESTING: Bioinformatics Integration Support Project

Notes:

☒ Upload Online

Upload instructions

- Select Research project to which upload will be stored
- Provide description of uploaded files in “Notes”
- Browse for .zip file

## flowTextFiles.xls template: Multiple File Upload

flowTextFiles.xls						
1	List of FLOW text files for batch upload	Version 2.8				
2	Please do not delete or edit this column					
3	Column Name	FCS Binary File Name*	FCS Text File Name*	Preferred Display Name	Description	Marker File
4		FCS01tst.fcs		FCS01	fcsupload1	FCSBatch.in
5		FCS02tst.fcs		FCS02	fcsupload2	FCSBatch.in
6		FCS03tst.fcs		FCS03	fcsupload3	FCSBatch.in
7						

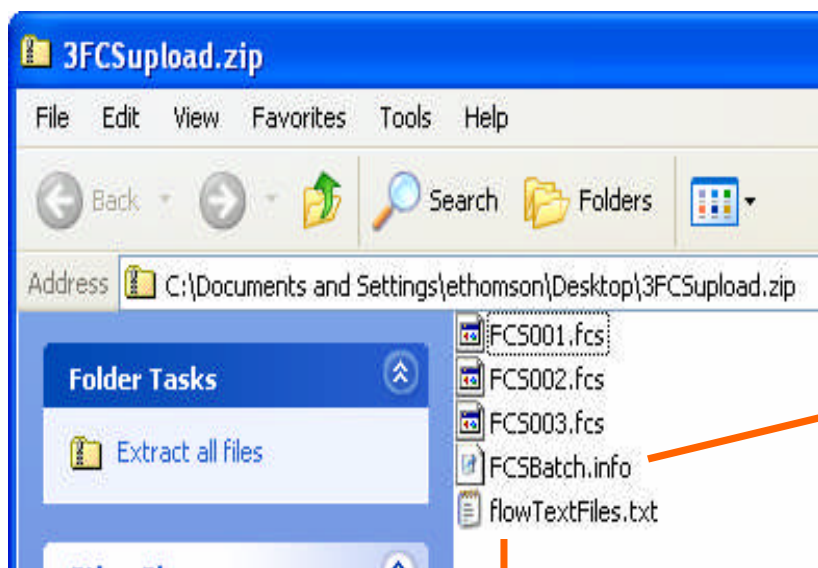
  

Experiment Sample User-Defined ID	Experiment Sample ImmPort Accession
FCSExpSample01tst	
FCSExpSample02tst	
FCSExpSample03tst	

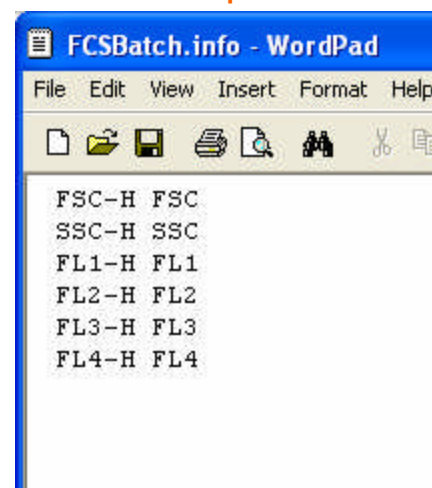
Complete flowTextFiles.xls template:

- 1a. Fill in **FCS Files Names** for each .fcs file being uploaded—one file per row. Uploaded FCS files will be automatically converted using the ImmPort conversion process. Please see the ImmPort Conversion tutorial found under 'Help' in the Flow Cytometry Analysis menu.
- 1b. Fill in **FCS Text File Name** if uploading .txt converted FCS files. Note: If both FCS and .txt converted FCS files are uploaded ImmPort will not convert the uploaded .fcs file.
2. **Preferred Display Name** enables editing of FCS text file names to user-preferred names (optional)
3. **Description** of the file being uploaded (optional)
4. **Marker file** is used to edit the marker names within the flow cytometry file--see the user guide for more details. (optional)
5. **Experiment Sample User-defined ID** and **Experiment Sample ImmPort Accession**. (optional) The ImmPort accession is assigned by ImmPort when an experiment sample is submitted. The **User-defined ID** is provided by the user during data upload via the Experiment Sample submission template. Adding Experiment Sample information allows ImmPort to link uploaded flow cytometry data to Experiment Samples within a Project.
6. Convert the flowTextFiles.xls spreadsheet to a Tab-delimited format and save.

## Example of .zip data package for ImmPort flow cytometry multiple-file upload without linking to Experiment Samples



**.info file example: tab-delimited**



**.info file added to edit marker names (optional)**

**flowTextFiles.txt (required)**

**The flowTextfiles.xls template is converted to .txt before adding to the .zip upload package  
Do not change the name of the flowTextFiles.txt template**

The .info file provides the ability to edit the channel/marker names for multiple FCS file uploads. To create an info file you will need to:

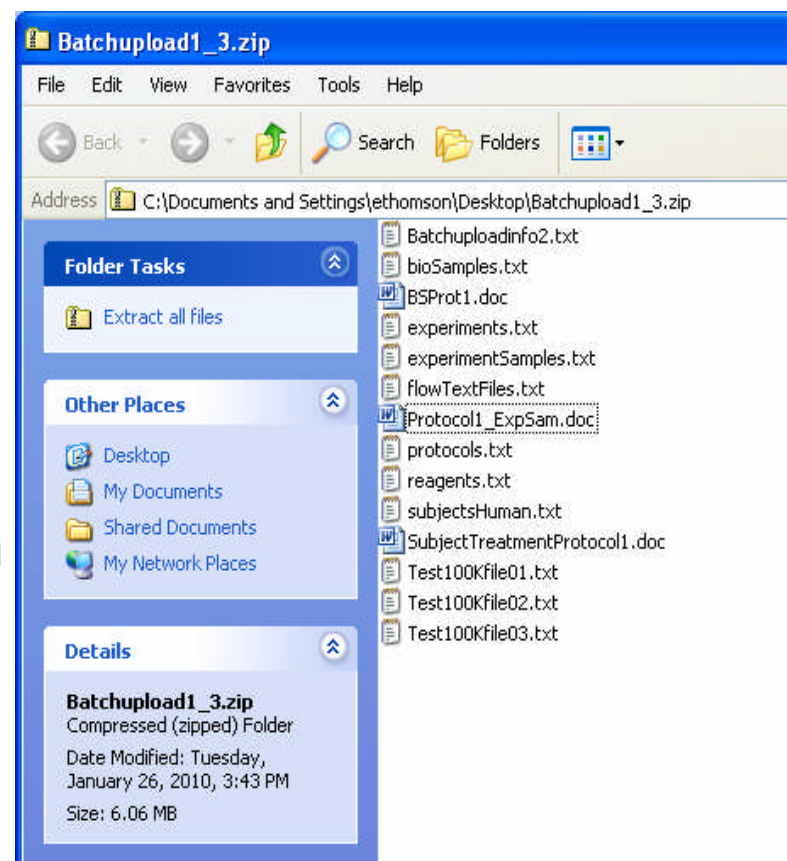
1. Open a text editor such as NotePad
2. Beginning in the upper left corner enter the name of the first channel name
3. Tab over once and enter the preferred name
4. Click return, begin entering on the next row.
5. Save the .info file in the .txt format.

## Example of .zip data package for ImmPort flow cytometry multiple-file upload linking to Experiment Samples

### Items required in .zip package for linking to Experiment Samples:

1. flowTextFiles.xls template converted to .txt
2. Marker information file, tab-delimited, saved as .info
3. protocols.xls template converted to .txt
4. Protocols referred to in the protocol.xls template
5. reagents.xls template converted to .txt
6. subjects (human or animal) .xls converted to .txt
7. experiments.xls converted to .txt
8. experimentSamples.xls converted to .txt
9. bioSamples.xls converted to .txt
10. In this example FCS files were converted to .txt prior to upload

Please see the Data Submission User Guide for details and links to required data submission templates



## Multiple File Upload: upload status

Once the “Submit” button has been clicked, the system will display uploaded file information including the name of the uploaded package and the Upload Ticket number. Click “Here” to view upload Status

Research Project Title:  
Notes:  
  
☒ Upload Online  
  

Submit

TESTING: Bioinformatics

Submit

Uploaded File: Batch3\_5files\_2info\_1fileno\_info.zip is done..

Upload Ticket: thomsli\_20100119\_1308

Click [Here](#) to renew Status

Data Submission / Data Submission History

[Submit Data](#) | [Submission History](#) | [Resources](#)

Submit Data

Main Page

Step 1:

Download and Fill Templates

Step 2:

Check Data in .zip file

Step 3:

Send Data in .zip file

Step 4:

Review Submission Status & Results

This page is a summary overview of the data submissions to a project. If you have access to more than one project, use the project filter to view the submission queue from other projects.

The data submitted to ImmPort can be queried and reviewed in [Research Data Search](#)

Filter By Project: TESTING: Bioinformatics Integration Support Project Set Filter

Click on a Ticket Number below to view a submission's details.

53 items found, displaying 26 to 50. [First/Prev](#) [1](#), [2](#), [3](#) [Next/Last](#)

Ticket Number	.ZIP File Name	Format	Status	Submitter	Submit Date
					11
					19
					52
			Completed	thomsli	01/19/2010 11:49:38

View of Uploaded Files status

Need help? Please feel free to contact us by email at [helpdesk@import.org](mailto:helpdesk@import.org)



# Data Submission Detail view of 3 uploaded files linked to experiment samples

Data Submission / Data Submission Details

Submit Data

Submission History

Resources

[Back to History](#)

[Data Management Home](#)

Submitted Zip File:

Ticket Number:

Project Title:

Data Format:

Status:

Submitter:

Submit Date:

Metadata File Format:

Notes:

Batchupload1\_3.zip

thomsl 20100126 1397

Test Project

FCM\_report\_file

Completed [\(download report\)](#)

thomsl

01/26/2010 15:44:11


TAB\_DELIM

Test upload 3 files with exp sample links

17 items found, displaying all items.

Row Num	File Name	Status	Error Message	Description
46856	Batchupload1_3.zip	Pending		server name:testapp1.immport.net
46857	Batchupload1_3.zip	Started		
46858	Protocol1_ExpSam.doc	Archived		size: 19968 bytes
46859	SubjectTreatmentProtocol1.doc	Archived		size: 19968 bytes
46860	BSProt1.doc	Archived		size: 19968 bytes
46861	protocols.txt	Parsed		
46862	reagents.txt	Parsed		
46863	subjectsHuman.txt	Parsed		
46864	bioSamples.txt	Parsed		
46865	experiments.txt	Parsed		
46866	experimentSamples.txt	Parsed		
46867	Test100Kfile01.txt	Archived		size: 5458549 bytes
46868	Test100Kfile02.txt	Archived		size: 5130040 bytes
46869	Test100Kfile03.txt	Archived		size: 5445080 bytes
46870	flowTextFiles.txt	Parsed		
46871	Batchuploadinfo2.txt	Archived		size: 88 bytes
46872	thomsl 20100126_1397__Batchupload1_3.zip	Completed		

# FLOCK Analysis: File selection



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Flow Cytometry Analysis (Beta) / Data Management / Uploaded Files Search

Flow Cytometry | Data Management | FLOCK | View/Edit Results | Cross Sample | Help

Use the 'Uploaded Files Search' to find data files for FLOCK analysis, dataset creation or download of both .fcs files and .txt files.

Upload Single File

Upload Multiple Files

**View/Edit Uploaded Data**

Create Data Set

View/Edit Data Sets

Select project:  Include Semi-Public files in the Search ☐ **Select Project to find FCS files**

Uploaded Flow Files Search

Search for Uploaded Files: Results per page: 25 

Submit

Cancel

Advanced Search Attribute Tree

Flow

Name

Text File Name

Description

Panel

Created By

Created By Last Name

Date Created

Flow: Name

Like

Flow: Description

Like

Remove

Remove

**Use the Uploaded Flow Files Search to select search criteria for uploaded files. Clicking the attributes from the Advanced Search Attribute Tree will open the search fields for input.**

**Select Files**

Page 3 of 10

Details

Run FLOCK

Save To Set

Save All

Download

Delete

<input type="checkbox"/>	Name	Description	Panel	Exp Sample Acc	FCS Text File	Date Created	Created By
<input type="checkbox"/>	CD4 purified		FSC SSC FL-HA CD25 CD		DD082009_012.txt	2010-10-28	Thomson
<input type="checkbox"/>	Spleen-pLN		FSC SSC FL-HA CD25 CD		DD082009_009.txt	2010-10-28	Thomson
<input type="checkbox"/>	HLfile		FSC-A FSC-H FSC-W SSC-A		d10_H3_H03.txt	2010-10-21	Thomson
<input type="checkbox"/>	Specimen_001_Tube_01	Forward Scatter Side Sc			Specimen_001_Tube_01	2010-10-06	Thomson
<input type="checkbox"/>	Specimen_001_Tube_01	Forward Scatter Side Sc			Specimen_001_Tube_01	2010-10-06	Thomson
<input type="checkbox"/>	Specimen_001_Tube_01	Forward Scatter Side Sc			Specimen_001_Tube_01	2010-10-06	Thomson
<input type="checkbox"/>	Specimen_001_Tube_00	Forward Scatter Side Sc			Specimen_001_Tube_00	2010-10-06	Thomson
<input type="checkbox"/>	Specimen_001_Tube_00	Forward Scatter Side Sc			Specimen_001_Tube_00	2010-10-06	Thomson

**Use buttons to access file details, Run FLOCK analysis, save files to datasets and download files**

Search results appear in the table above. All files uploaded to the selected project will appear in this table if no search criteria is defined